

GREG BELL Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

Representatives Present During the Inspection:			
OGM	Steve Christensen		
OGM	Kevin Lundmark		
Company	Dave Shaver		
Company	Dana Marrelli		

Inspection Report

Permit Number:	C0150032		
Inspection Type:	PARTIAL		
Inspection Date:	Thursday, March 10, 2011		
Start Date/Time:	3/10/2011 10:00:00 AM		
End Date/Time:	3/10/2011 1:00:00 PM		
Last Inspection:	Wednesday, February 23, 2011		

Inspector: Steve Christensen,

Weather: Winds 0-5 mph, Sunny, 50 degrees F.

InspectionID Report Number: 2677

Types of Operations

Accepted by: jhelfric 3/17/2011

Permitee: GENWAL RESOURCES INC Operator: GENWAL RESOURCES INC Site: CRANDALL CANYON MINE

Address: PO BOX 910, EAST CARBON UT 84520-0910

County: EMERY

Permit Type: PERMANENT COAL PROGRAM

Permit Status: ACTIVE

Curren	t Acr	eages
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6,235.80	Total Permitted
27.15	Total Disturbed
	Phase I
	Phase II
	Phase III

Mineral Ownership

	. J p v v v v p v v v v		
✓ Federal	✓ Underground		
State	Surface		
County	Loadout		
Fee	Processing		
Other	Reprocessing		

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

On March 10th, 2010, Division staff members Steve Christensen and Kevin Lundmark conducted a field inspection of the Crandall Canyon Mine facility. The primary focus of the inspection was the mine-water treatment system.

Following the inspection at the Crandall Canyon mine, Dave Shaver (Genwal Resources) took Mr. Christensen and Mr. Lundmark to a prospective iron sludge disposal site. The site is located approximately 1/4 mile north of Highway 31 across from the Huntington Canyon power plant.

Inspector's Signature:

Date

Monday, Mar-



Steve Christensen,

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REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

- 1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
 - b. For PARTIAL inspections check only the elements evaluated.
- 2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
- 3. Reference any narratives written in conjunction with this inspection at the appropriate performace standard listed below.
- 4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

		Evaluated	Not Applicable	Comment	Enforcement
1.	Permits, Change, Transfer, Renewal, Sale		✓		
2.	Signs and Markers		✓		
3.	Topsoil		✓		
4.a	Hydrologic Balance: Diversions				
4.b	Hydrologic Balance: Sediment Ponds and Impoundments	~		✓	
4.c	Hydrologic Balance: Other Sediment Control Measures	✓		~	
4.d	Hydrologic Balance: Water Monitoring	✓		V	
4.e	Hydrologic Balance: Effluent Limitations				
5.	Explosives				
6.	Disposal of Excess Spoil, Fills, Benches				
7.	Coal Mine Waste, Refuse Piles, Impoundments				
8.	Noncoal Waste				
9.	Protection of Fish, Wildlife and Related Environmental Issues				
10.	Slides and Other Damage				
11.	Contemporaneous Reclamation				
12.	Backfilling And Grading				
13.	Revegetation				
14.	Subsidence Control				
15.	Cessation of Operations				
16.a	Roads: Construction, Maintenance, Surfacing				
16.b	Roads: Drainage Controls				
17.	Other Transportation Facilities				
18.	Support Facilities, Utility Installations				
19.	AVS Check				
20.	Air Quality Permit				
21.	Bonding and Insurance				
22.	Other				

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4.b Hydrologic Balance: Sediment Ponds and Impoundments

The primary sediment pond was snow covered on this day.

Following the inspection at the Crandall Canyon mine, Daver Shaver (Genwal Resources) took Mr. Christensen and mr. Lundmark to a prospective iron sludge disposal site. The site is located approximately 1/4 mile north of Highway 31 across from the Huntington Canyon power plant. The company will propose the construction of at least two shallow evaporation ponds for the purpose of storing and ultimately burying the material on-site. The company is in the process of collecting the requisite baseline data (soils, archaeology, vegetation etc.) for permitting the site under the existing Crandall Canyon Mining and Reclamation Plan (MRP). Based upon the work to date, the company is anticipating the submitting the amendment to the Division within the next month or two. Based on the preliminary work thus far, Mr. Shaver indicated that it would be approximately 4-6 months before the evaporation ponds were permitted, constructed and operational.

The site is approximately 10-12 acres. Upon inspection of the site, several other industrial land-uses were observed in the areas adjacent to the proposed site. A natural gas pumping station and waste-rock site were noted during the field inspection. Mr. Shaver indicated that the site has been previously disturbed by "chaining".

4.c Hydrologic Balance: Other Sediment Control Measures

Operator is wiring a Programable Logistics Controller (PLC) to automate alarms, flow meters, sensors, etc. Wiring is expected to be completed week of March 17. Three flow meters are to be added: freshwater to flocculant make-down unit, flocculant neat, and coagulant.

Clean water for chemical preparation is no longer being shipped to the site. Oeprator is using an irrigation pump to fill water tanks from treatment pond outlet. Tanks require filling every 3 days.

Flocculant doasge rate reported as 2.5 ppm (approx). Rate calulated by Operator based on 0.5% flocculant concentration in make down unit, being pumped by a 1 gpm - 60 hz pump operated at 30 hz (for 0.5 gpm). Coagulant dosage rate still approx. 38 ppm based on change in level in tote over time.

Scamp contractors were on-site cleaning the treatment pond. Per Scam personnel, pond cleanout has been ongoing for at least 2 weeks Mon - Fri. Typically, 2 X large vac trucks and 3 X small vac trucks are filled and transported to Wildcat Loadout each day.

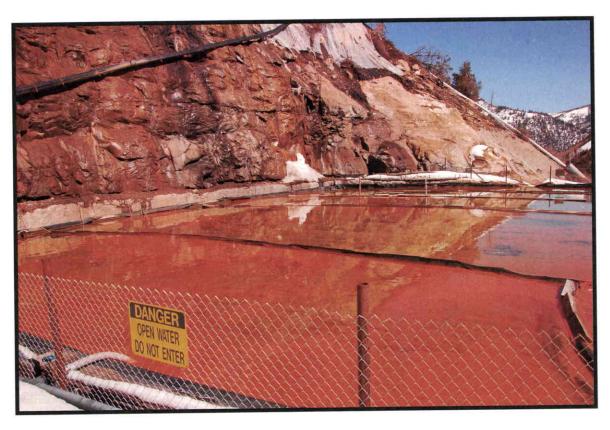
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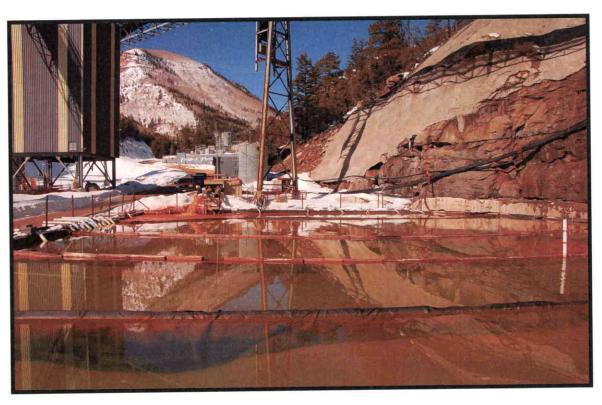
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4.d Hydrologic Balance: Water Monitoring

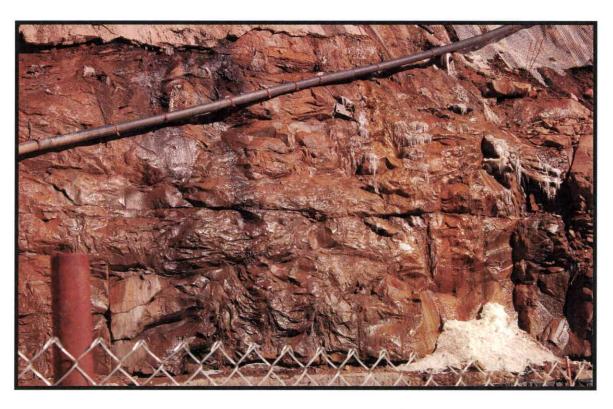
Division personnel collected samples at Pre-002 and 002 outfall. Sample Pre-002 to be analyzed for sulfate and total iron. Sample at outall 002 to be analyzed for total aluminum and total iron.



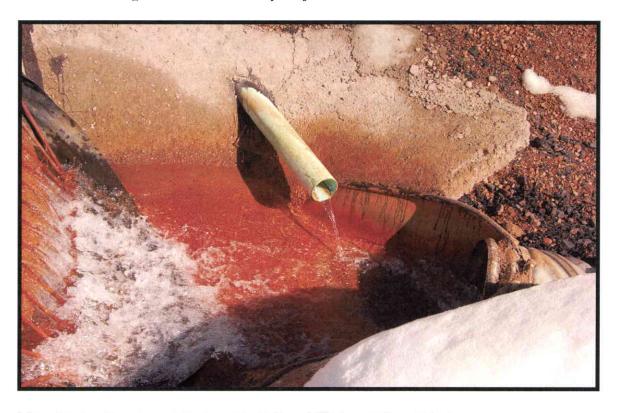
Mine-Water Treatment System- Looking East.



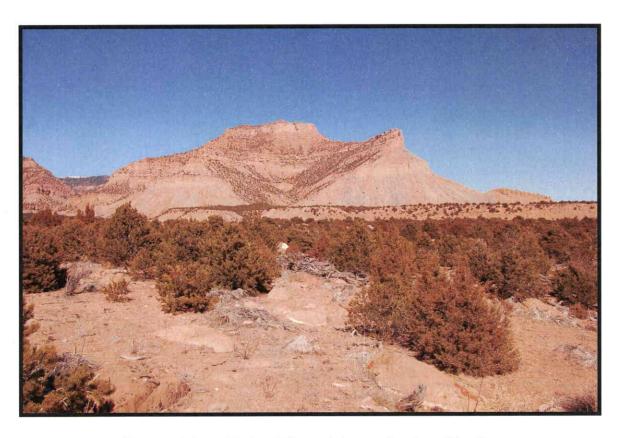
Mine-Water Treatment System- Looking West.



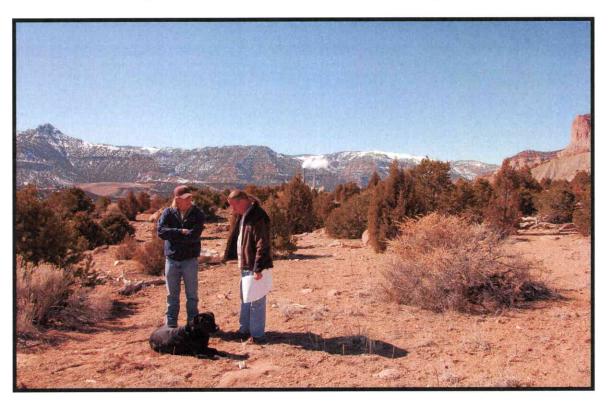
Highwall Area- Directly Adjacent to North Side of Mine



Mine Water Treatment System Outfall and Highwall Seep Discharge



Proposed Iron Sludge Disposal Area – Looking North



Proposed Iron Sludge Disposal Area – Looking South East